WEBCON

in Asian Conference on Remote Sensing (ACRS)

Web Contest for students, young researchers and all makers: We invite proposals for innovative and creative ideas exploring themes such as sustainable development and artificial intelligence (AI) in remote sensing, spatial information sciences and geospatial applications.

- **INFORMATION**

A very big 'Thank You' to all our participants in **WEBCON13**.

WEBCON13 will be held at ACRS2026 in India.

- **INTRODUCTION of WEBCON**

The WEBCON Organizing Committee invites proposals for innovative and creative ideas exploring themes such as sustainable development and artificial intelligence (AI) in remote sensing, spatial information sciences, and geospatial applications.

We welcome submissions from students, young researchers, and all "makers" under the age of 35 who are registered for ACRS. Ideas/Projects should leverage internet-connected devices, digital fabrication technologies, virtual/augmented reality, or other advanced tools to propose smart solutions that address global challenges and help shape the future of sustainability and AI in geosciences.

Contest Rules:

1. Submissions may be made individually or in teams of up to three members.
2. After an initial review of proposals, selected applicants will be invited to the final competition.
3. Contestants are responsible for bringing their own laptop computers to present their work. A wireless internet connection will be provided by the organizers.

WEBCON 12 (2025)

The 12th Web Contest, WEBCON12, was successfully organized at the 46th Asian Conference on Remote Sensing (ACRS2025) held in Makassar, Indonesia on October 30, 2025. The primary objective of WEBCON is to promote the development of web materials and the exchange of ideas related to the geospatial information sciences, which may be the initiative or vision of the future Internet-based geospatial applications and services. A total of 9 submissions were received for WEBCON12. The submissions came from Japan, Malaysia, China Taipei, and Indonesia. Each team briefly presented their entries and had 40 minutes to demonstrate the usefulness and efficiency of their web material to about 35 participants. A total of 17 participants demonstrated their entries during the session and 9 reviewers and other participants tested the applications. Based on the quality and criteria defined by the WEBCON12 jury, the following entries were awarded the Gold, Silver and Bronze prizes:

Proposals:

1	**iT Sensing: From Pixels to Decisions Together, In Minutes**	**Sarono, Erna Kurniati, Gen Azza, Rizka Maharani (Universitas Gadjah Mada, Indonesia)**
2	**Location-based AR Art Sharing Platform**	**Tomoki Sugihara, Yusuke Eshima, Teruhiko Meguro (Shibaura Institute of Technology, Japan)**

3	A Comparison of Optical Index-Based and Deep Learning Methods for Pond Detection in Taoyuan City, Taiwan	Yun-Hao Lin, Chia-Hao Wang (National Central University, Taiwan)
4	Re:Struct	Kenta Ishizuka, Kantaro Kanai, Takuto Nagaoka (Shibaura Institute of Technology, Japan)
5	EvacRoute: A Web-Based Evacuation Distance & Time Estimation Tool	Cheah Wei Chee Malaysia (Universiti Sains Malaysia, Malaysia)
6	SkyMap	Ohira Kazuki, Ishiwata Makoto, Harada Amane (Shibaura Institute of Technology, Japan)
7	WebGIS-Based GeoAI Application for Agricultural Land Governance in Barru Regency, South Sulawesi, Indonesia	Canny Maharani, Muh. Faqih Raihan, Herfiadi Reski Alviansyah (Hasanuddin University, Indonesia)
8	CCTV Road Risk Flood Detection (CCTVRRFD)	Bayulodie Vallianto (Honored entry) (Yamaguchi University / National Research and Innovation Agency (BRIN), Indonesia)
9	J-GMS: Multi-Scale Ground Deformation Monitoring System for Disaster Risk Reduction and Infrastructure Management	Khin Myat Kyaw (Honored entry) (The University of Tokyo, Japan)

Gold Prize: $300 USD

Indonesia - Canny Maharani, Muh. Faqih Raihan, Herfiadi Reski Alviansyah (Hasanuddin University), "WebGIS-Based GeoAI Application for Agricultural Land Governance in Barru Regency, South Sulawesi, Indonesia"

Silver Prize: $200 USD

Malaysia - Cheah Wei Chee (Universiti Sains Malaysia), "EvacRoute: A Web-Based Evacuation Distance & Time Estimation Tool"

Bronze Prize: $100 USD

Japan - Tomoki Sugihara, Yusuke Eshima, Teruhiko Meguro (Shibaura Institute of Technology, Japan), "Location-based AR Art Sharing Platform"

The certificates and prizes were presented by Prof. Kohei Cho accompanied by Prof. Masafumi Nakagawa, Dr. Ilham Alimuddin, and Dr. Andang Suryana Soma during the closing ceremony of ACRS2025.

WEBCON 11 (2024)

The 11th Web Contest, WEBCON11, was successfully organized at the 45th Asian Conference on Remote Sensing (ACRS2024) held in Sri Jayawardenepura Kotte, Sri Lanka on November 19, 2024. The primary objective of WEBCON is to promote the development of web materials and the exchange of ideas related to the geospatial information sciences, which may be the initiative or vision of the future Internet-based geospatial applications and services. A total of 8 submissions were received for WEBCON11. The submissions came from Sri Lanka, China Taipei, and Japan. Each team briefly presented their entries and had 90 minutes to demonstrate the usefulness and efficiency of their web material to about 50 participants. A total of 16 participants demonstrated their entries during the session and 14 reviewers and other participants tested the applications. Based on the quality and criteria defined by the WEBCON11 jury, the following entries were awarded the Gold, Silver and Bronze prizes:

Proposals:

1	**Development of Web-Based Metadata Service for Geospatial Data**	**Amila Madushan Manamperi (Sri Lanka)**
2	**One Globe, Endless Check-ins**	**YU TONG SUN (Taiwan)**
3	**Smart trash box: Trash box management system using remote sensing technology**	**Tetsu YAMAGUCHI (Japan)**
4	**Smartphone Application for Detecting and Visualizing Ganoderma Disease Stages in Oil Palm**	**Daranagama Arachchige Samitha Daranagama (Sri Lanka)**
5	**Islands in Flux, Life Thriving Continuously**	**Chun Chuan Huang (Taiwan)**
6	**Camera-based weight estimation system**	**Kantaro KANAI (Japan)**
7	**Digital Twin Urban Flood Forecast and Navigation System**	**Meng-Yuan Chen (Taiwan)**
8	**Using Open-Source Tools to Build a Sophisticated Spatial Application and**	**Mafaz Fareez (Sri Lanka)**

	Database - A Case Study on School Locator System	

Gold Prize:

Sri Lanka - Department of Civil Engineering, the University of Tokyo, Japan (Daranagama Arachchige Samitha Daranagama), 'Smartphone Application for Detecting and Visualizing Ganoderma Disease Stages in Oil Palm"

Silver Prize:

Sri Lanka - (M.F.M. Mafaz), "Using Open-Source Tools to Build a Sophisticated Spatial Application and Database - A Case Study on School Locator System"

Bronze Prize(s):

China-Taipei - National Defense University (Yu-Tong Sun, Yen-Ming Su, Yi-Song Zhang), "One Globe, Endless Check-ins"
and
Japan - Shibaura Institute of Technology (Tetsu Yamaguchi), "Smart trash box: Trash box management system using remote sensing technology"

HISTORY of WEBCON (2011-2023)

WEBCON1 (2011)

The 32nd ACRS on
October 5, 2011
in Taipei

WEBCON2 (2012)

The 33rd ACRS on
November 27, 2012
in Pattaya

WEBCON3 (2013)

The 34th ACRS on
October 22, 2013
in Bali

WEBCON4 (2014)

The 35th ACRS on
28 October, 2014
in Nay Pyi Taw

WEBCON5 (2015)

The 36th ACRS on
20 October, 2015
in Manila

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WEBCON10 (2023)

The 44th ACRS on
20 October, 2023
in Taipei